

FIG. 1

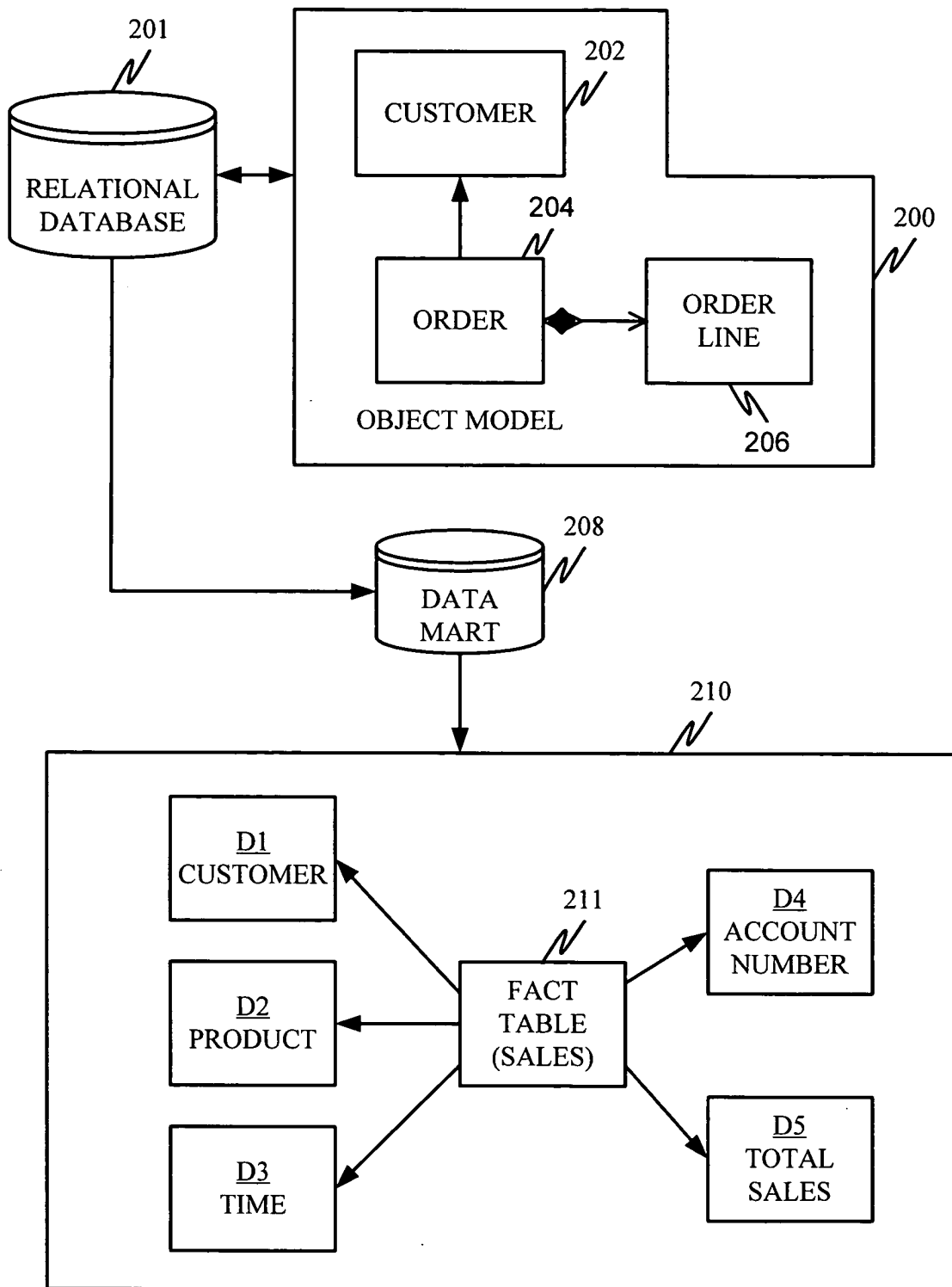


FIG. 2
(PRIOR ART)

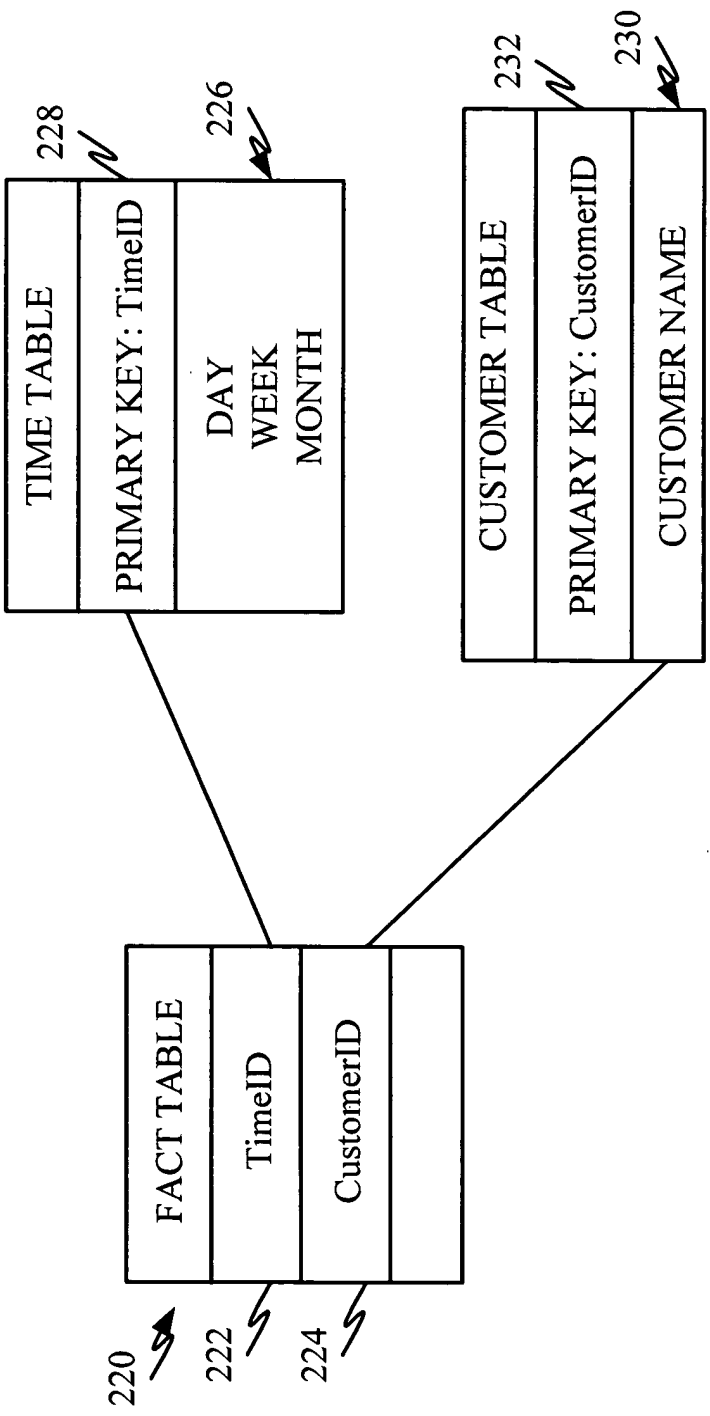


FIG. 3

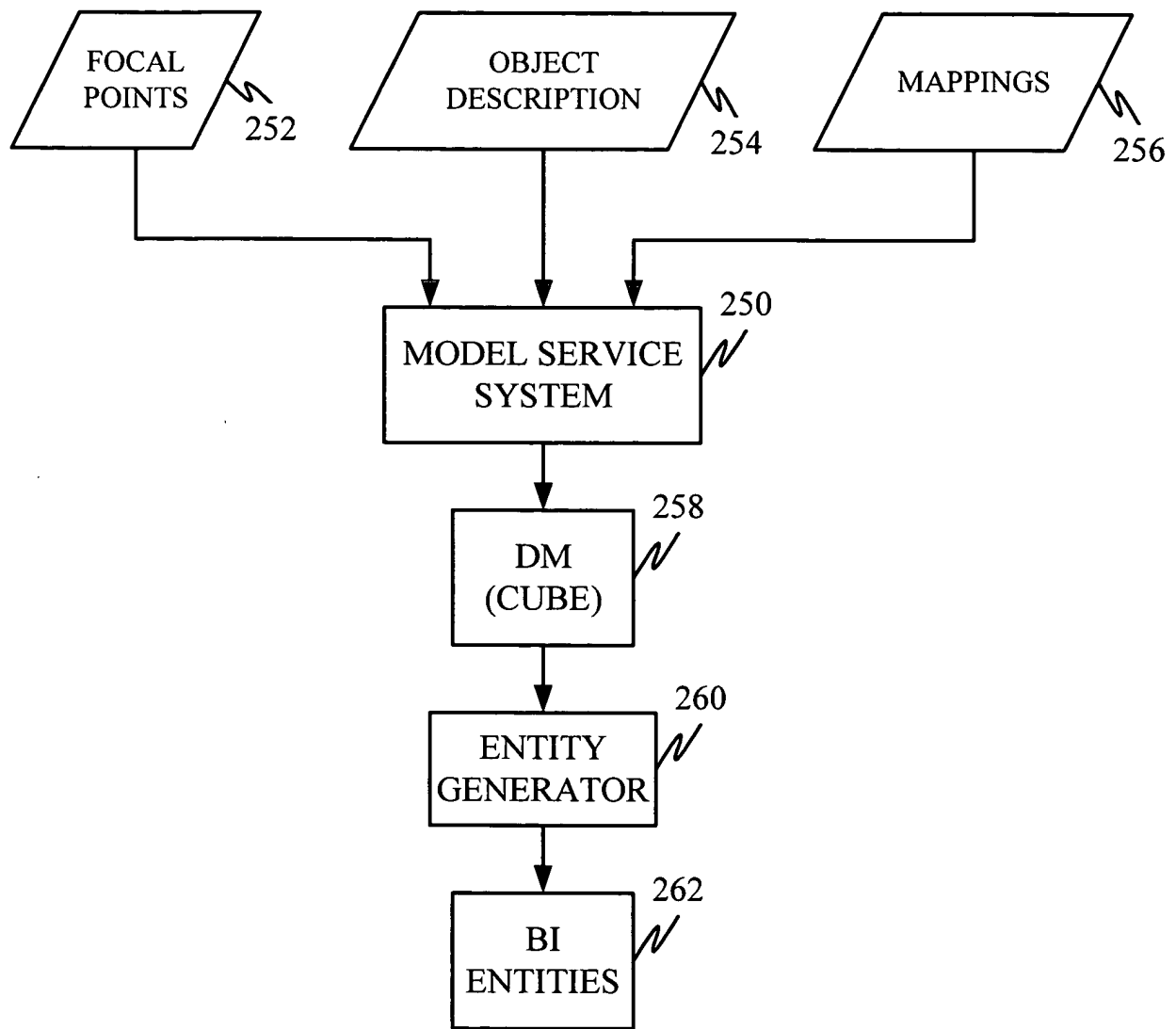


FIG. 4A

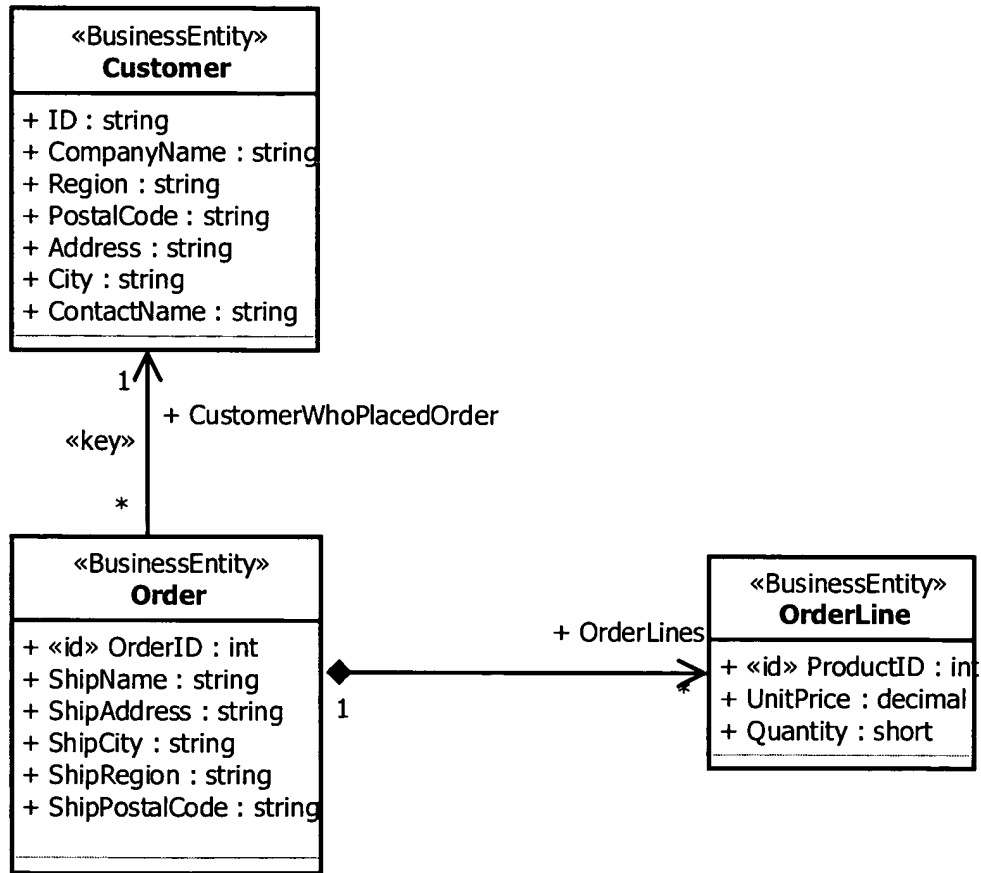
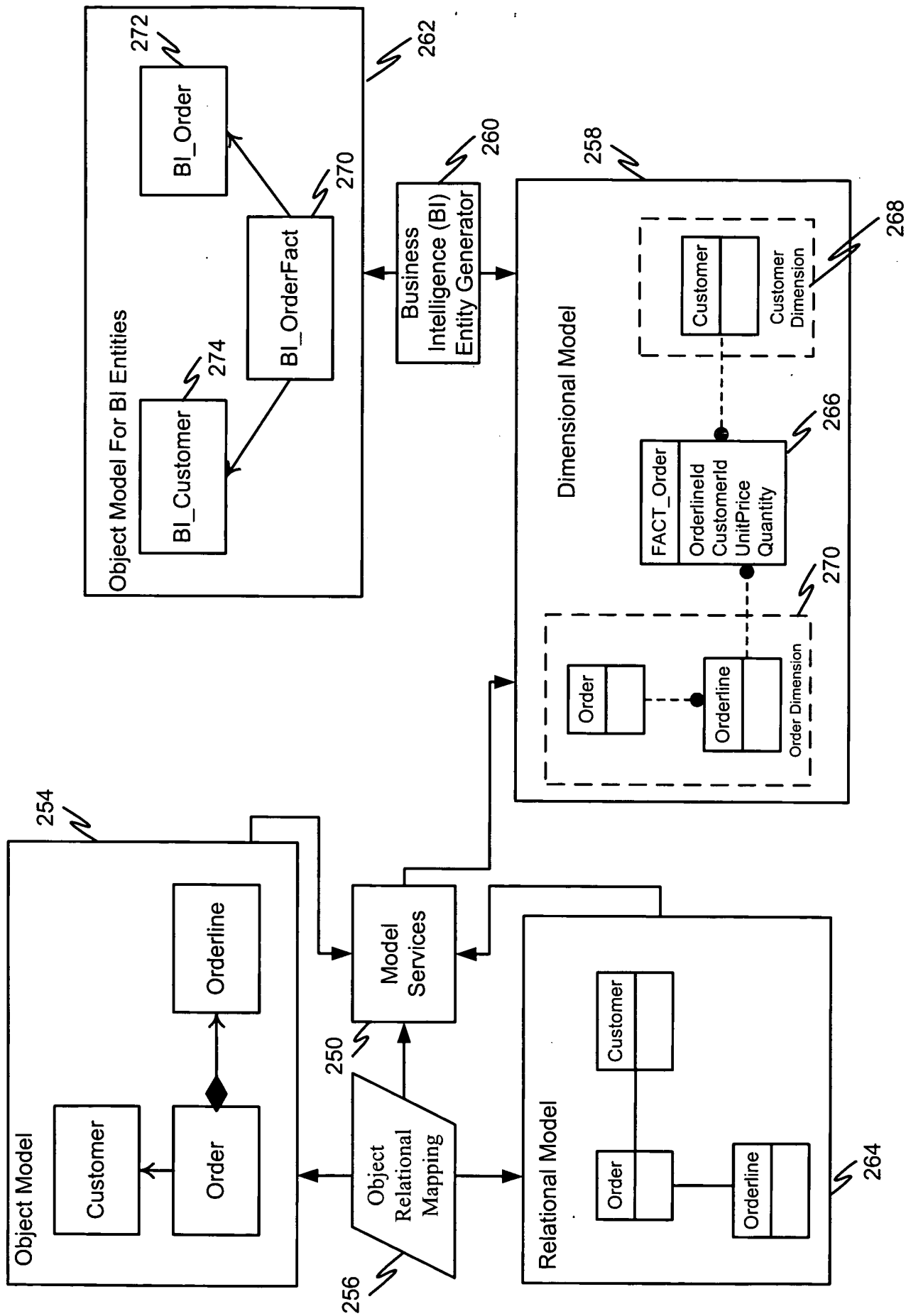


FIG. 4B

FIG. 4C



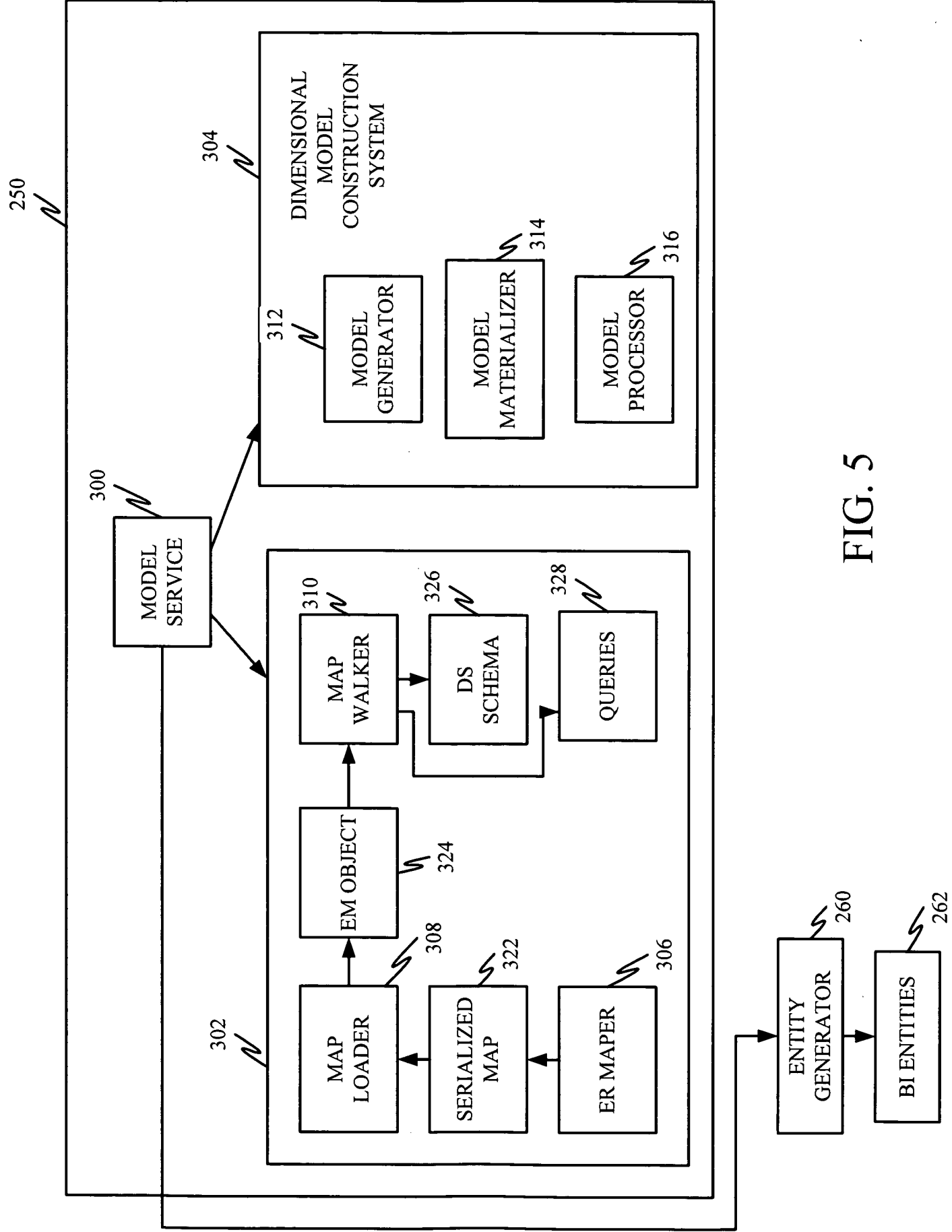


FIG. 5

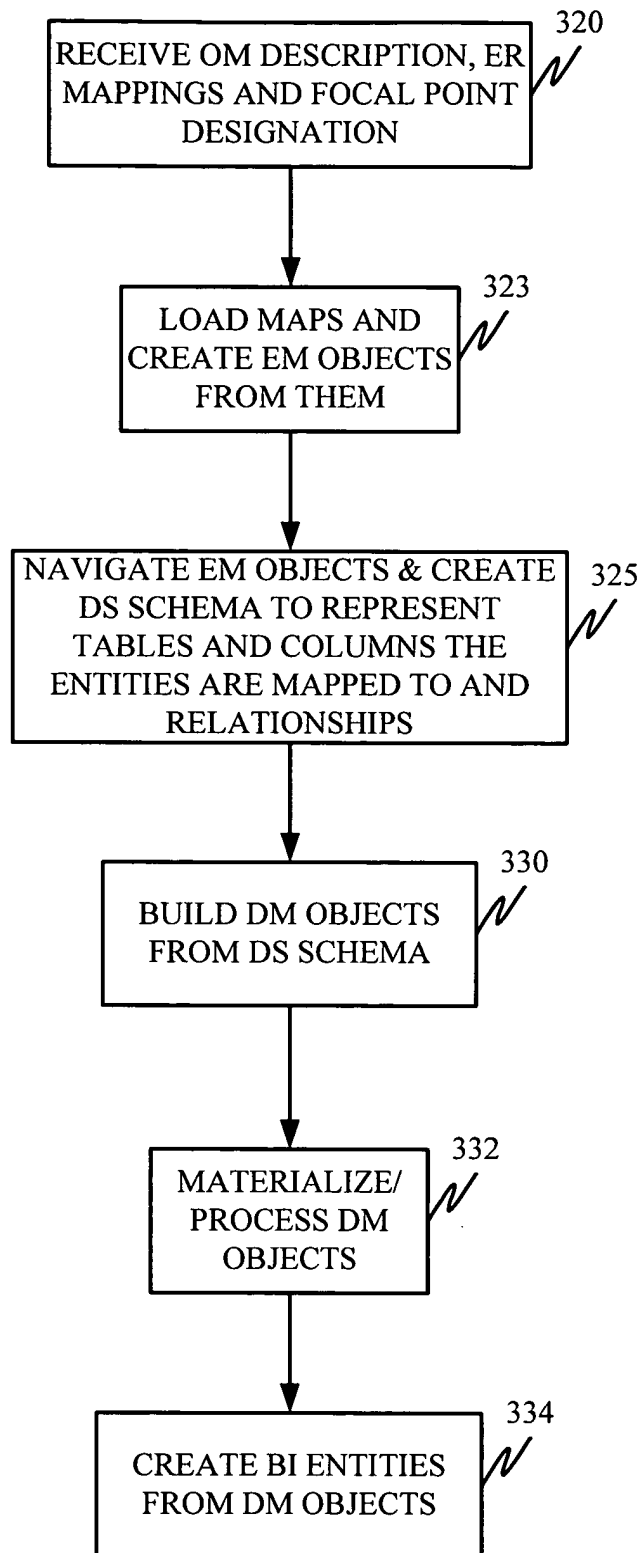


FIG. 6A

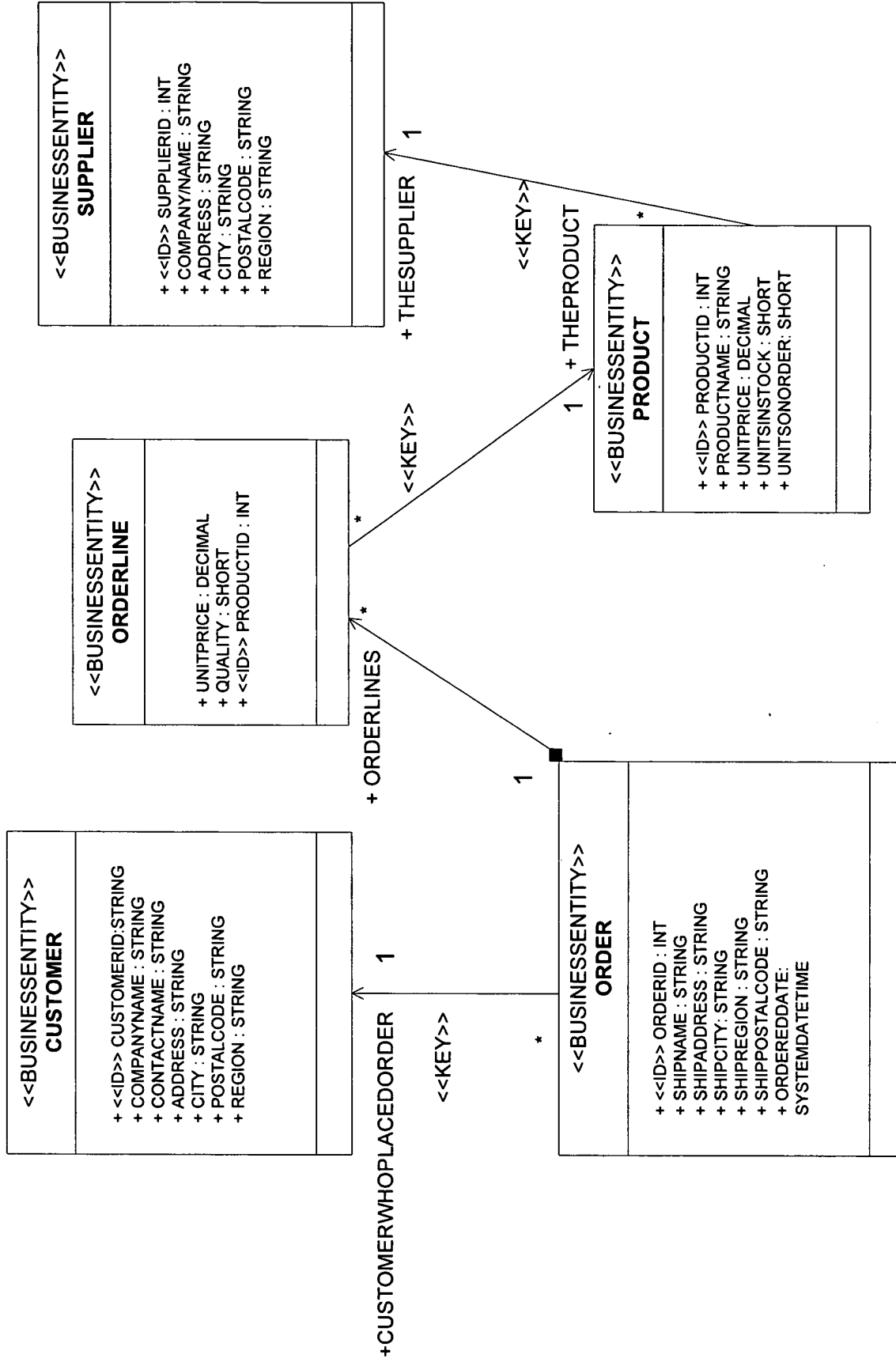


FIG. 6B

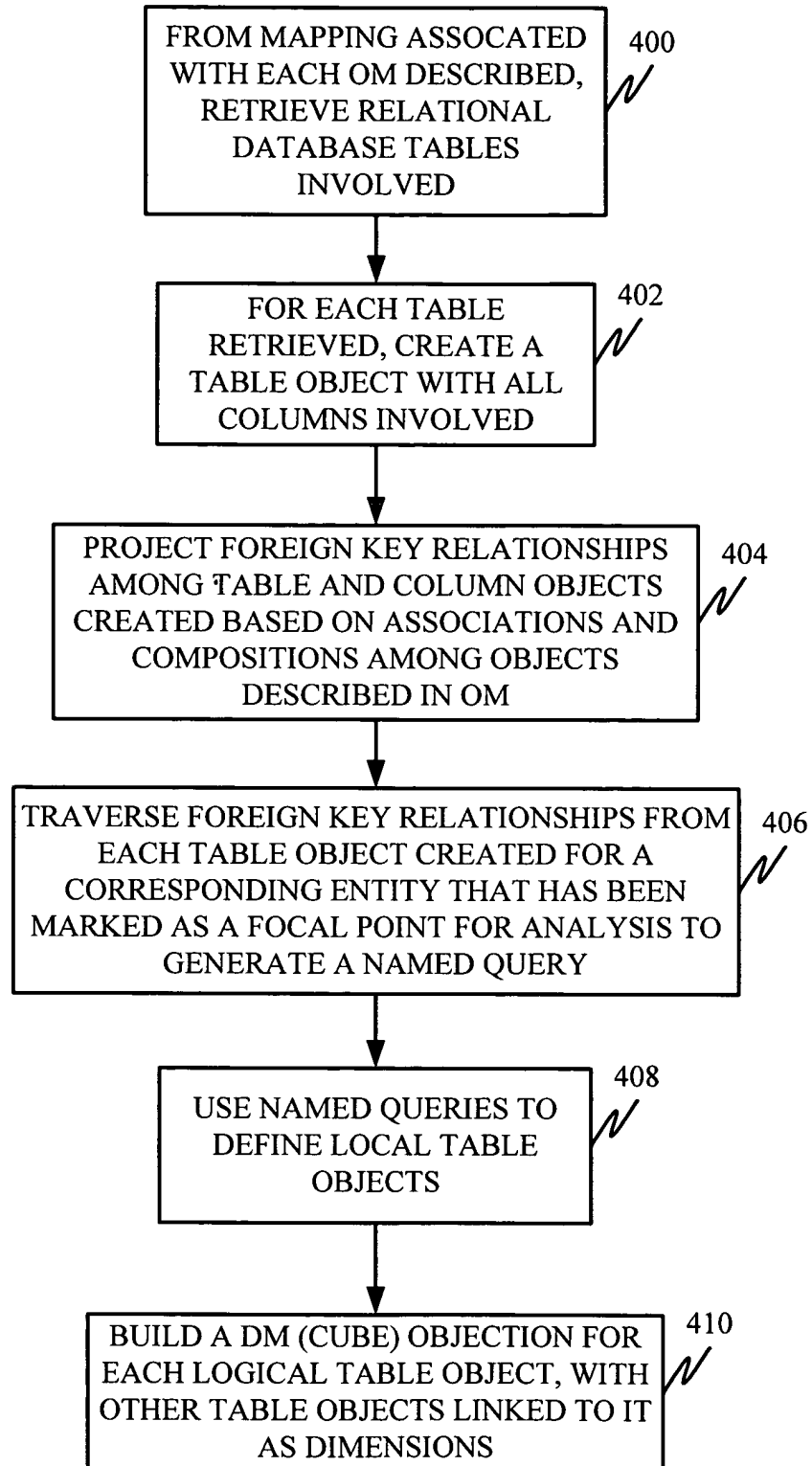


FIG. 7

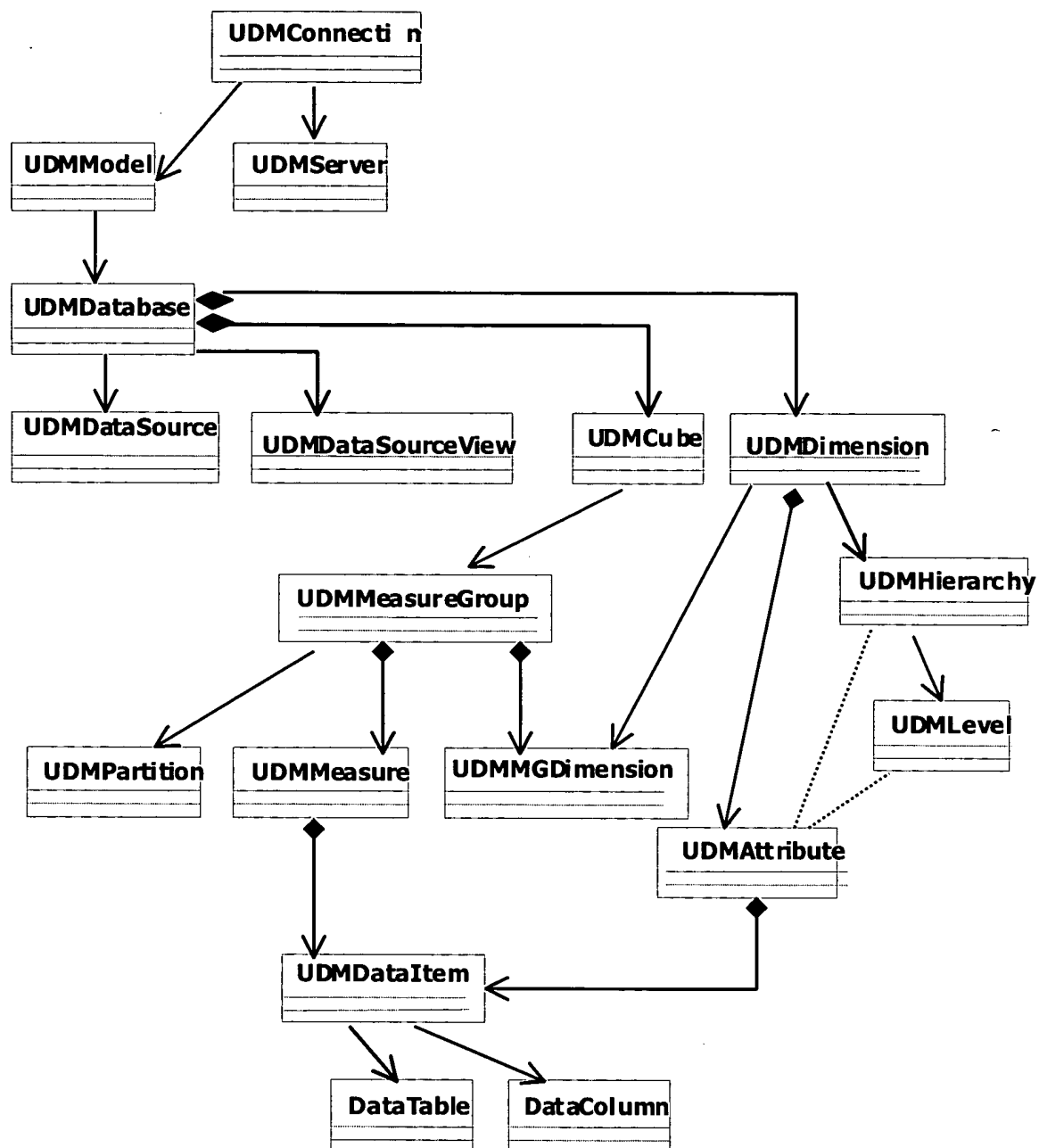


FIG. 8

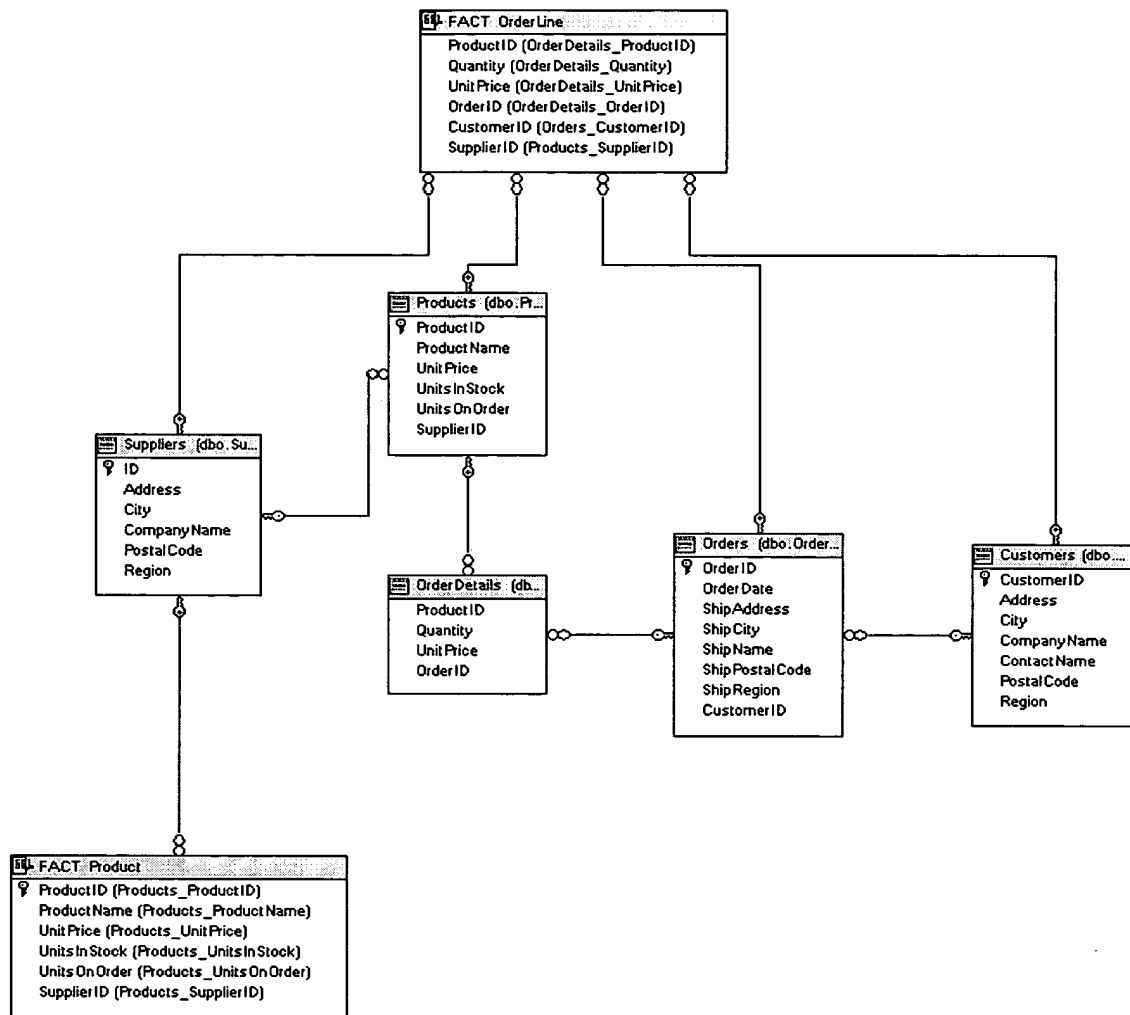
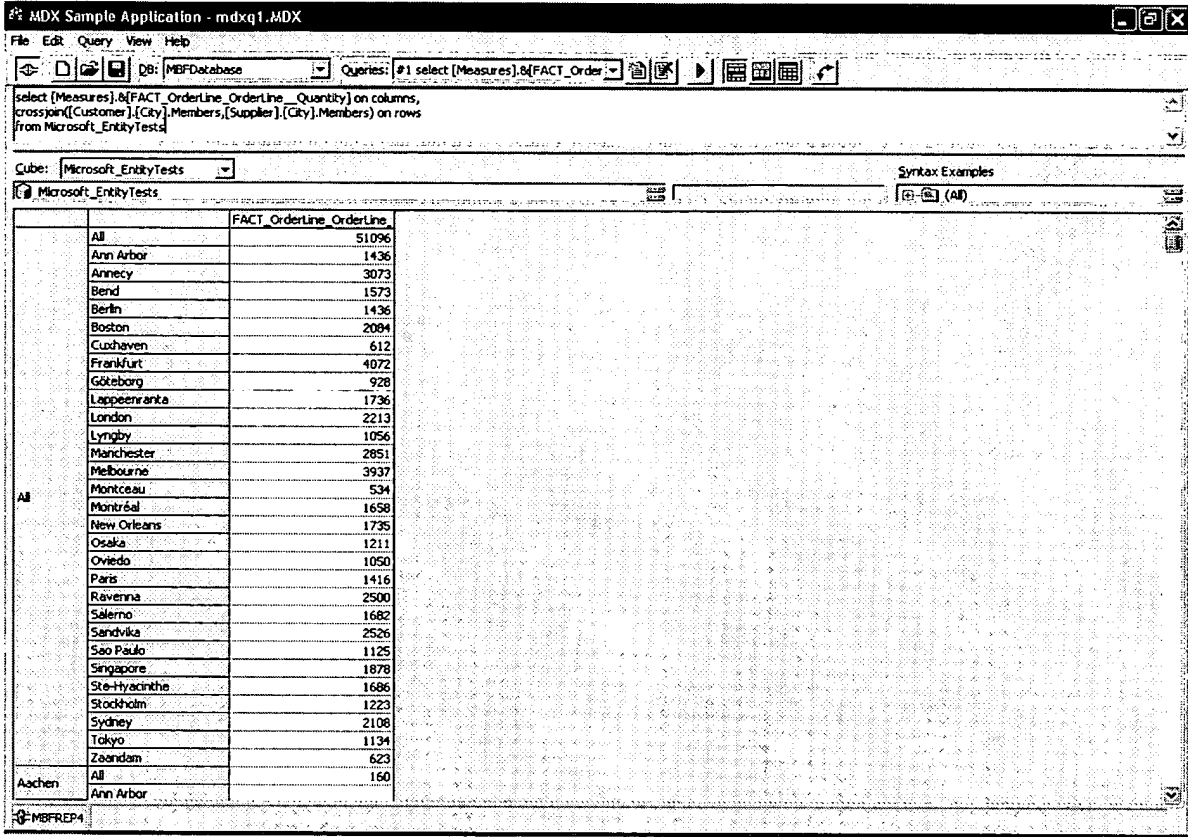


FIG. 9

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430

432

FIG. 10

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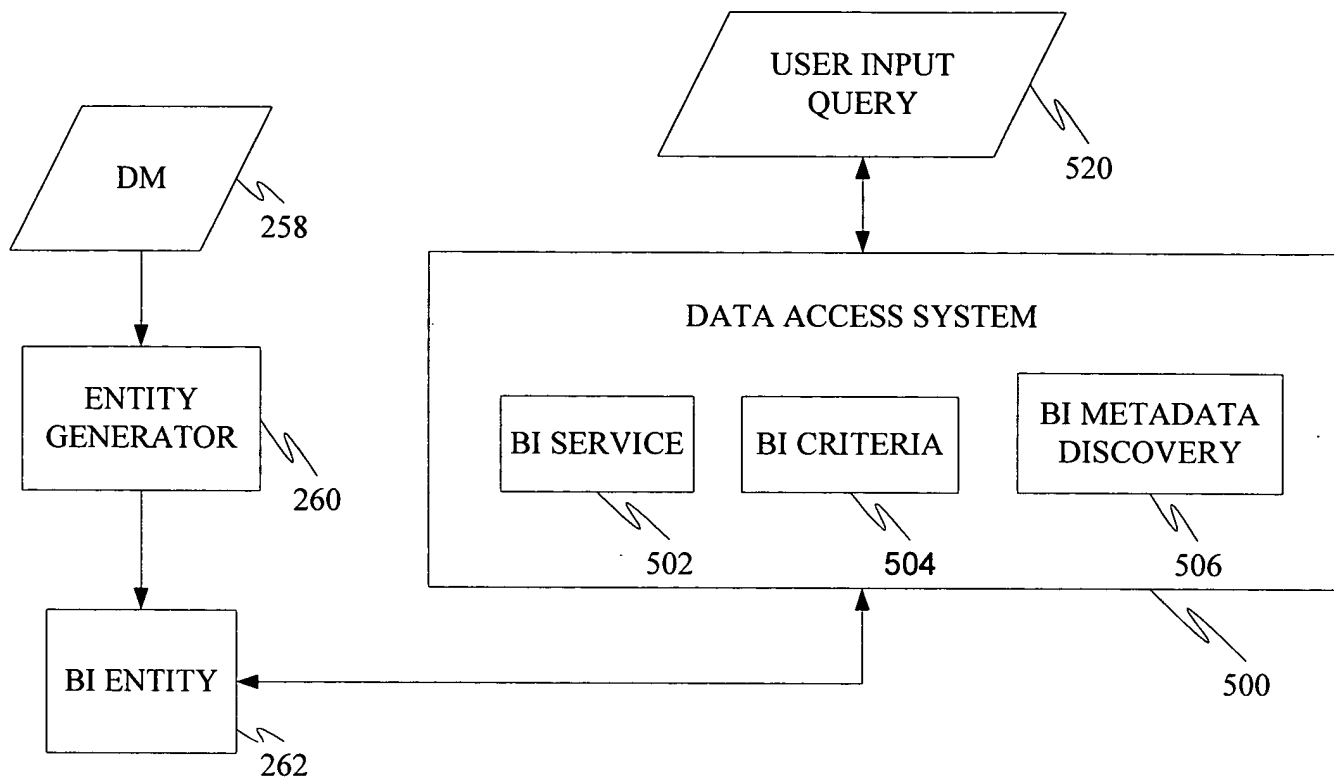


FIG. 11A

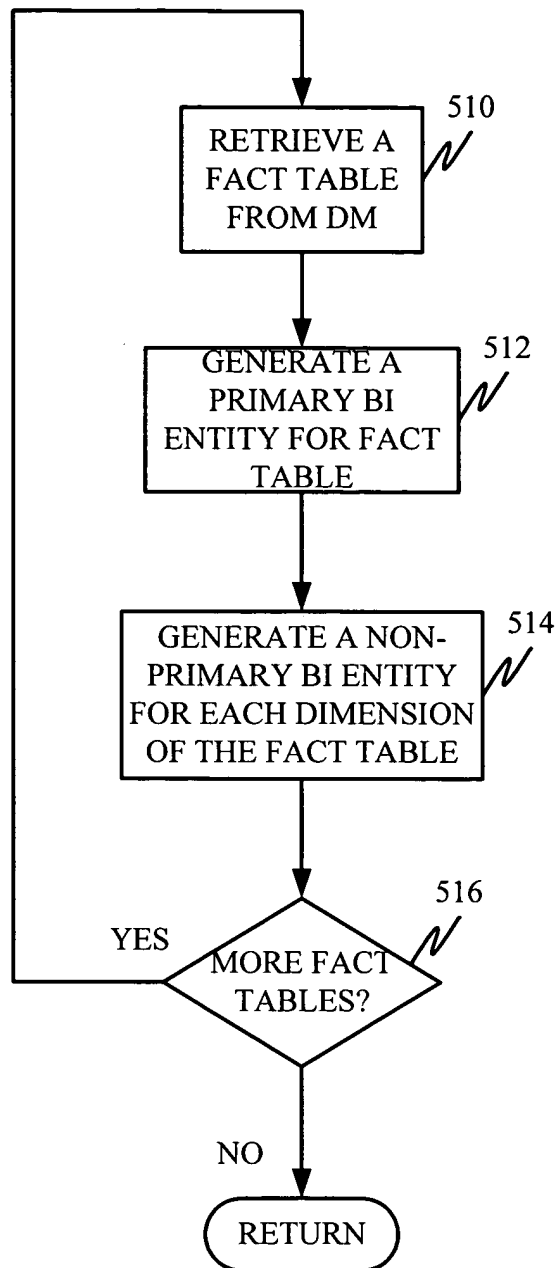


FIG. 11B

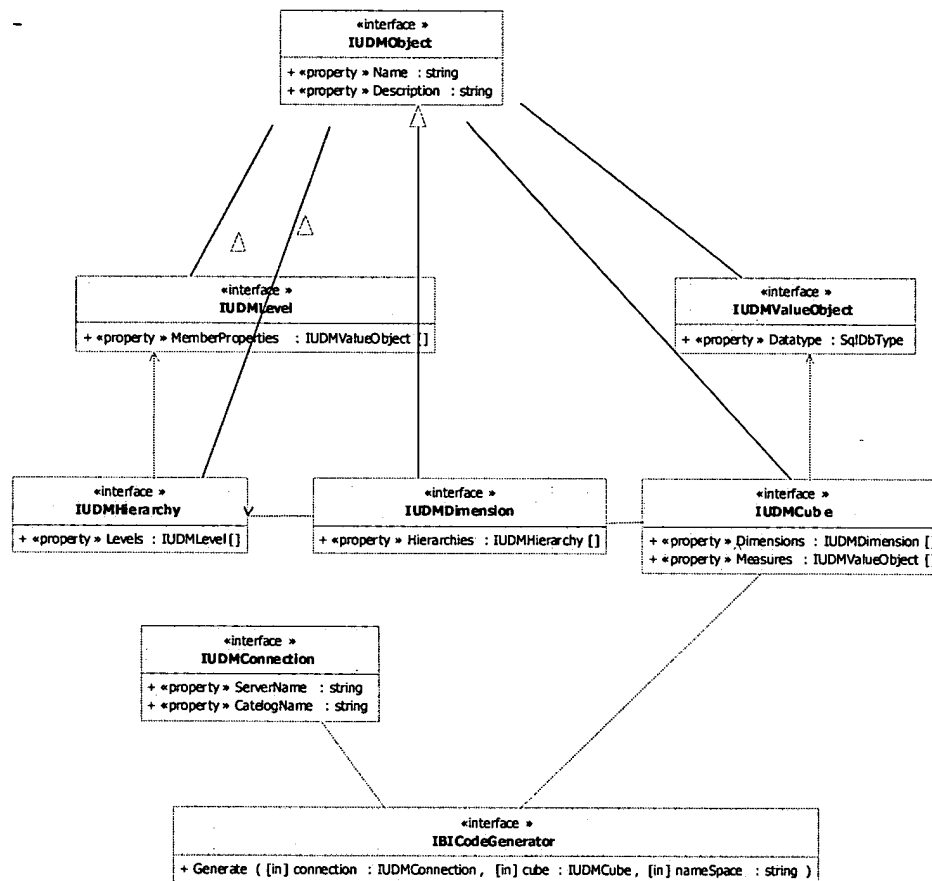


FIG. 12

IBICodeGenerator

It is the primary interface for Code generation.

```
interface IBICodeGenerator
{
    void Generate(IConnection connection,
                  ICube cube,
                  string nameSpace);
}
```

TODO include ICube and IConnection interfaces

```
public static DataSet GetFlattenedData(BICriteria criteria)
{
}
}
```

FIG. 13

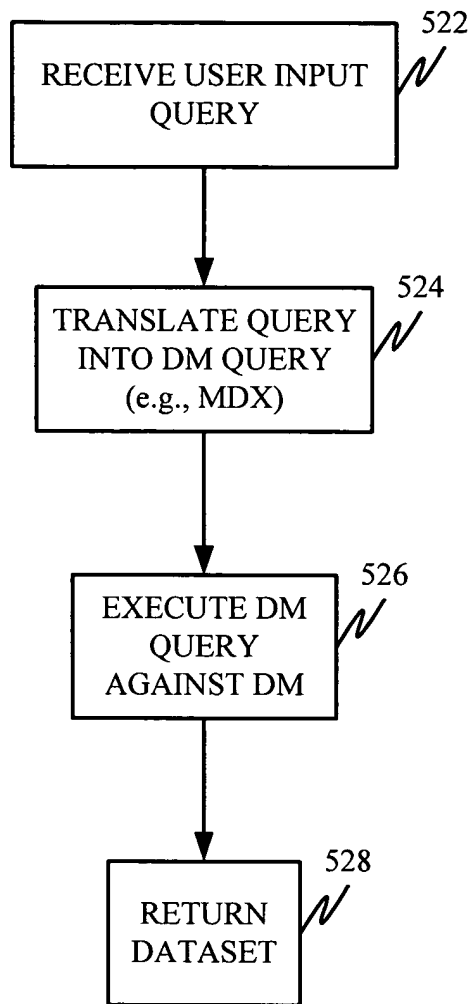


FIG. 14

```

public class BICriteria
{
    public BICriteria(BIContext context, CalculatedMemberList calculatedMemberList,
        AxisList axisList, Where where)
    {
    }

    public BICriteria(BIContext context, AxisList axisList, Where where)
    {
    }

    public BICriteria(BIContext context, CalculatedMemberList calculatedMemberList,
        AxisList axisList)
    {
    }

    public BICriteria(BIContext context, AxisList axisList)
    {
    }

    public static BIContext BIContext(params Type[] types)
    {
    }

    public static Where Where(params string[] sliceVals)
    {
    }

    public static Where Where(params Member[] members)
    {
    }

    public static Axis Axis(params Set[] sets)
    {
    }

    public static AxisList AxisList(params Axis[] axisList)
    {
    }

    public static AxisList AxisList(params Set[] sets)
    {
    }

    public static Set Set(params string[] vals)
    {
    }

    public static Set Set(params Member[] members)
    {
    }

    public static Set Set(params Tuple[] tuples)
    {
    }

    public static CalculatedMemberList CalculatedMemberList(params CalculatedMember[] calculatedMembers)
    {
    }

    public static CalculatedMemberList CalculatedMemberList(Member calculatedMember, ArithmeticExpression expression)
    {
    }
}

```

FIG. 15

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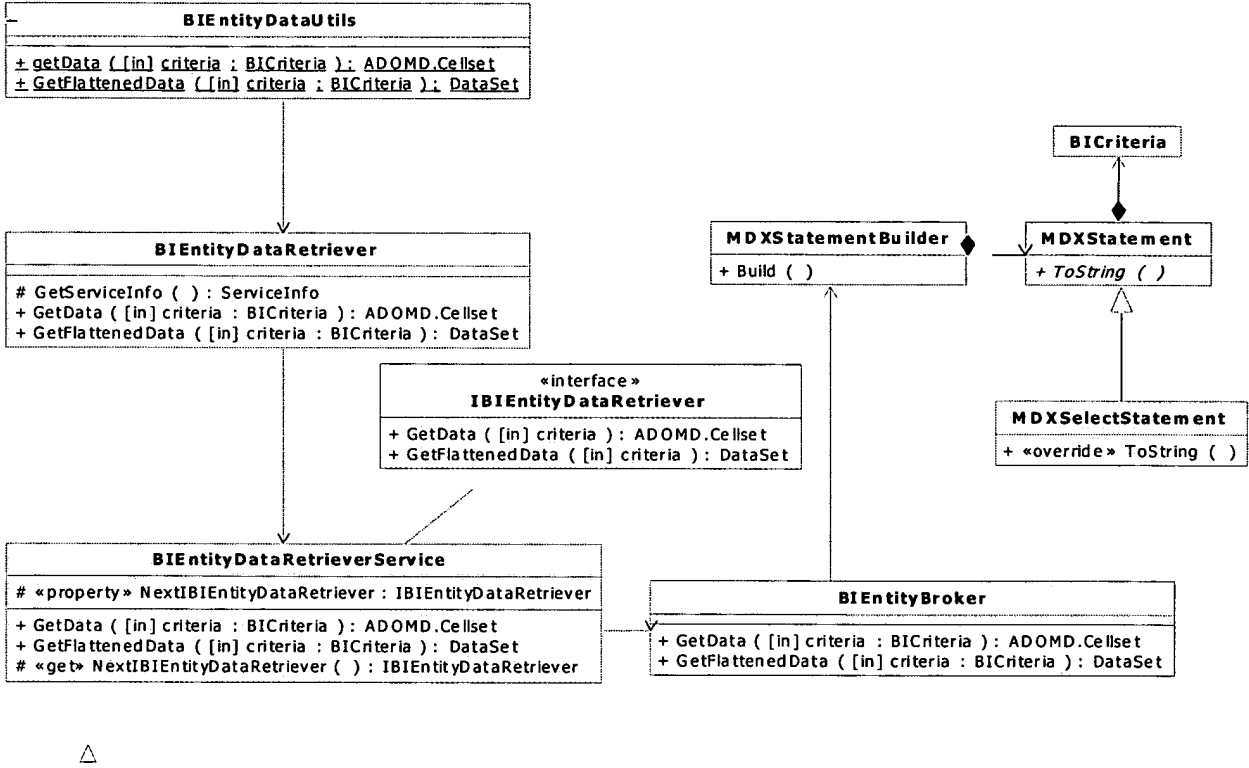
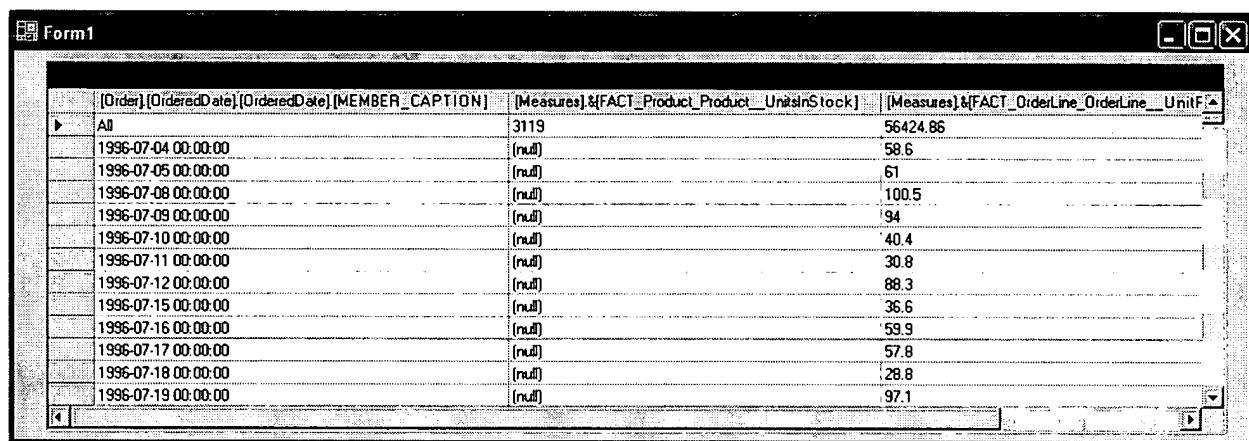


FIG. 17

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The screenshot shows a window titled 'Form1' containing a data table. The table has three main columns: a date column, a member caption column, and a measure column. The data is organized into rows, with the first row acting as a header for the subsequent data rows. The table is scrollable, as indicated by the scrollbar on the right side.

[Order][OrderedDate][OrderedDate]	[MEMBER_CAPTION]	[Measures]&[FACT_Product_Product_UnitsInStock]	[Measures]&[FACT_OrderLine_OrderLine_UnitF
All		3119	56424.86
1996-07-04 00:00:00		(null)	58.6
1996-07-05 00:00:00		(null)	61
1996-07-08 00:00:00		(null)	100.5
1996-07-09 00:00:00		(null)	94
1996-07-10 00:00:00		(null)	40.4
1996-07-11 00:00:00		(null)	30.8
1996-07-12 00:00:00		(null)	88.3
1996-07-15 00:00:00		(null)	36.6
1996-07-16 00:00:00		(null)	59.9
1996-07-17 00:00:00		(null)	57.8
1996-07-18 00:00:00		(null)	28.8
1996-07-19 00:00:00		(null)	97.1

FIG. 18

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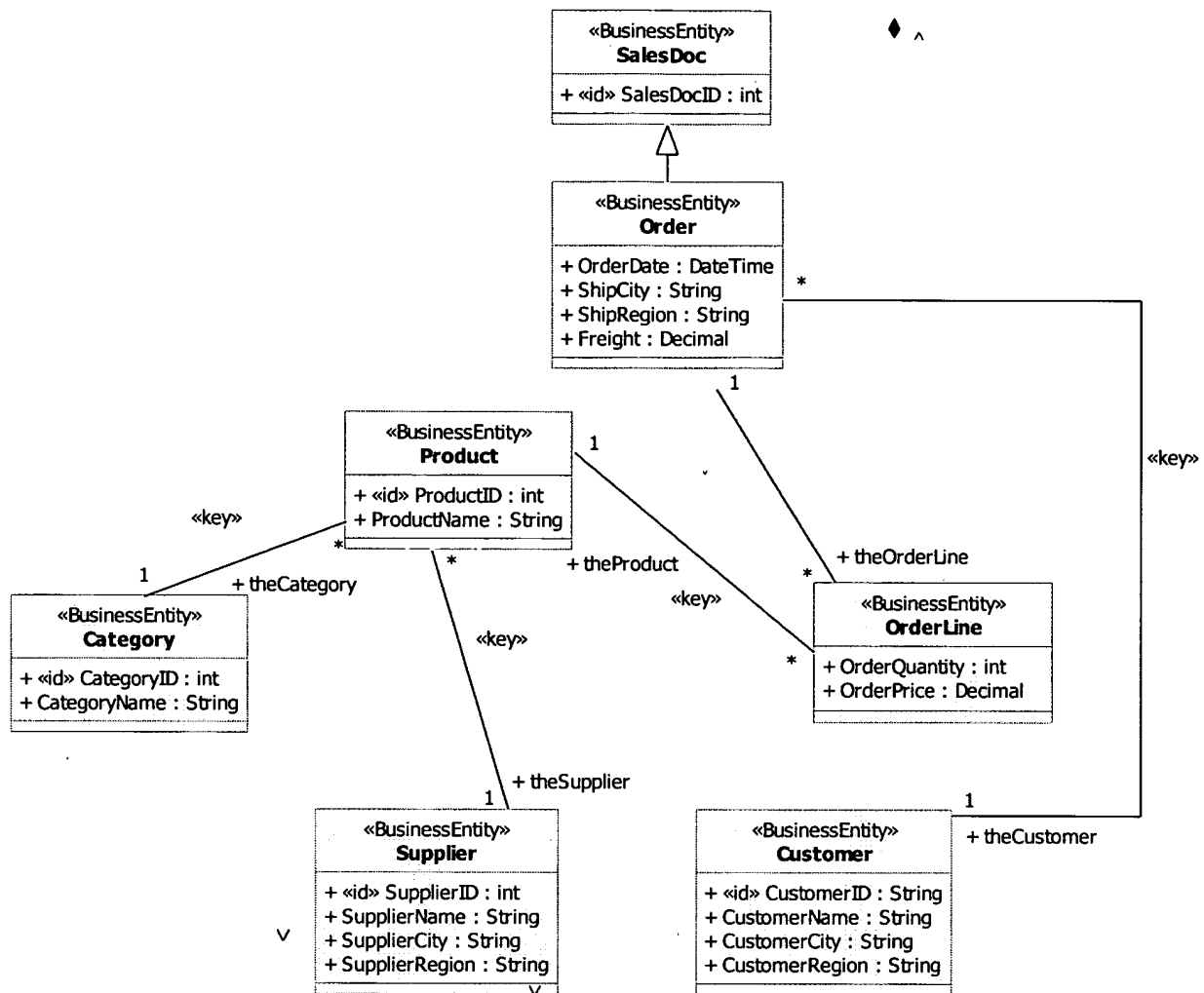


FIG. 19

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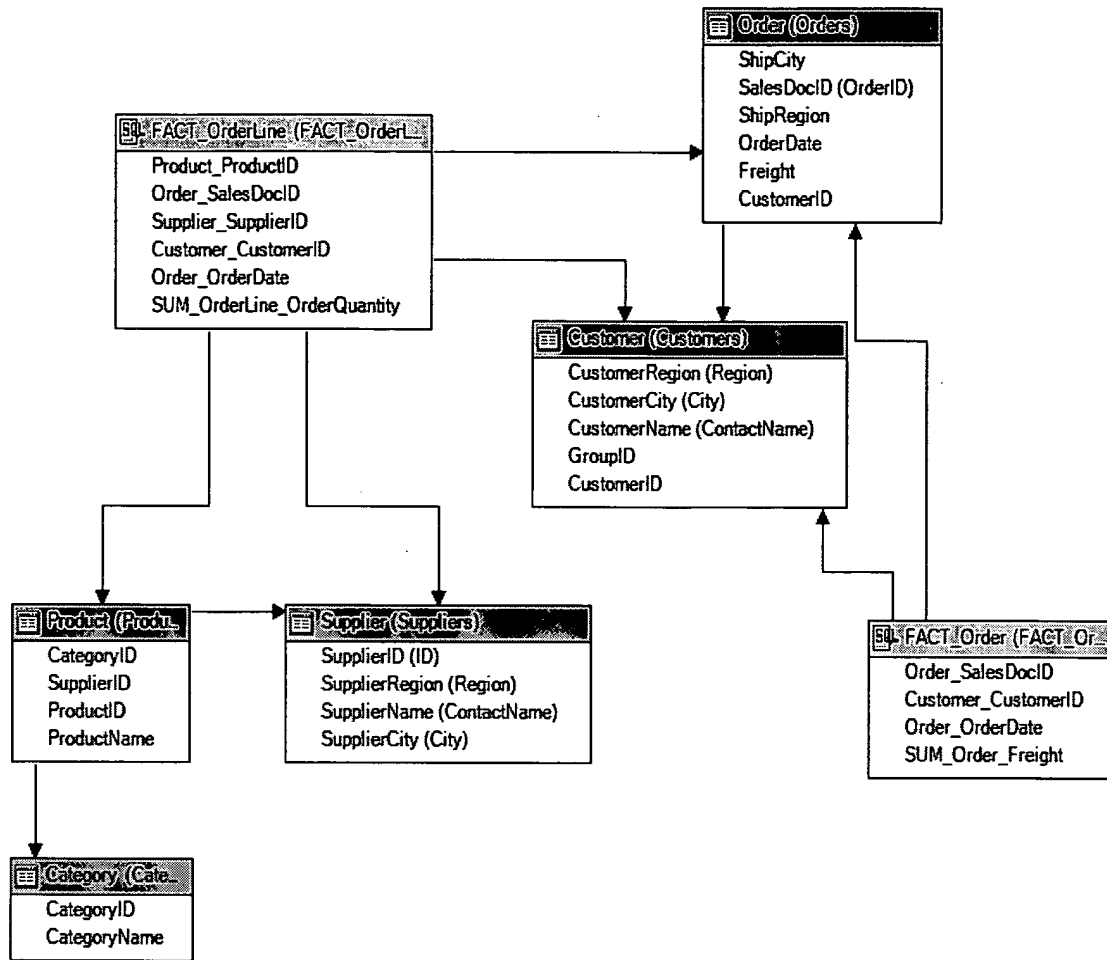


FIG 20

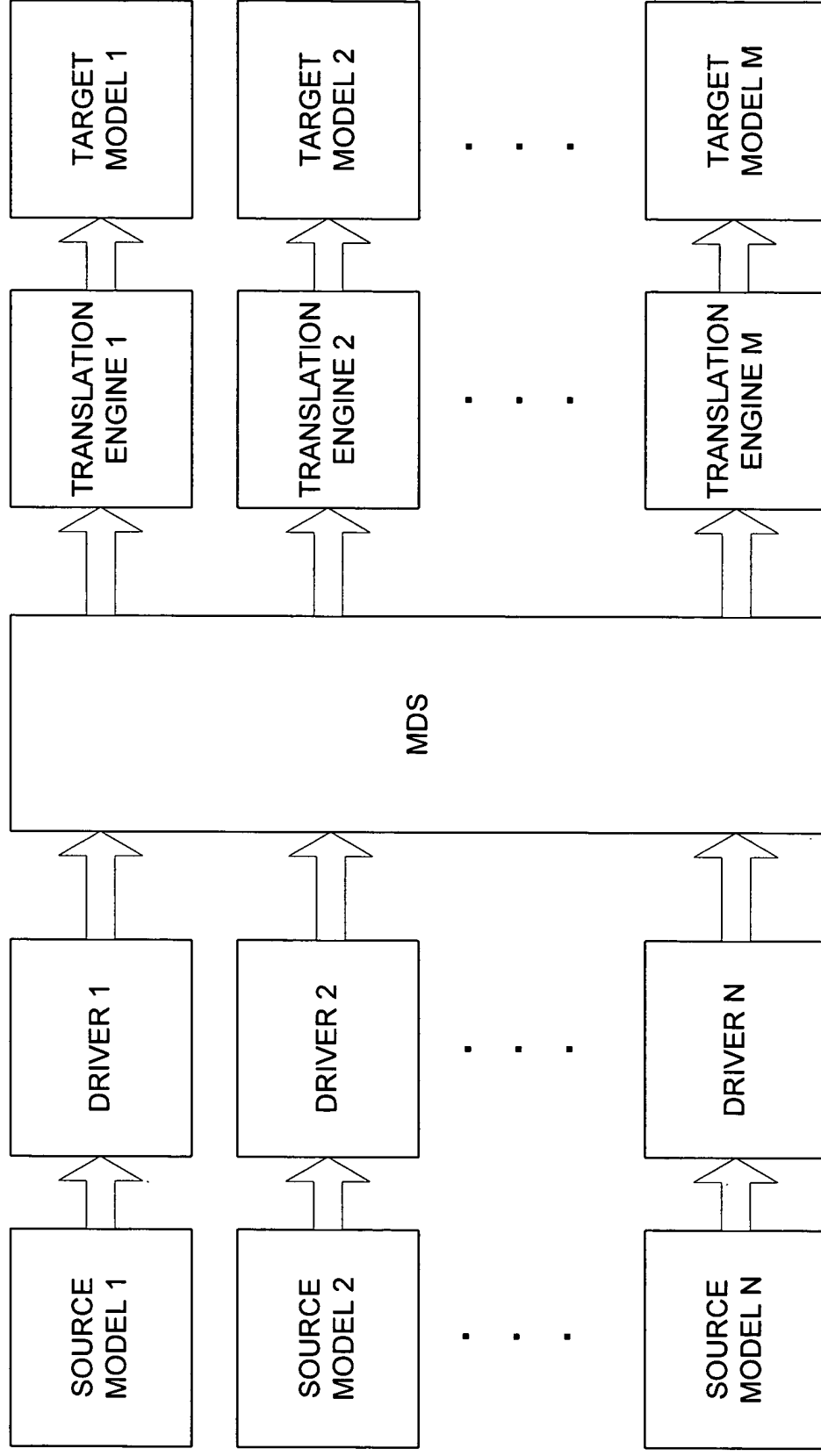


FIG. 21